

THE ANATOMICAL RECORD

18171

EDITORIAL BOARD

IRVING HARDESTY

Tulane University

CLARENCE M. JACKSON

University of Minnesota

THOMAS G. LEE

University of Minnesota

FREDERIC T. LEWIS

Harvard University

WARREN H. LEWIS

Johns Hopkins University

CHARLES F. W. MCCLURE

Princeton University

WILLIAM S. MILLER

University of Wisconsin

FLORENCE R. SABIN

Johns Hopkins University

GEORGE L. STREETER

University of Michigan

G. CARL HUBER, Managing Editor

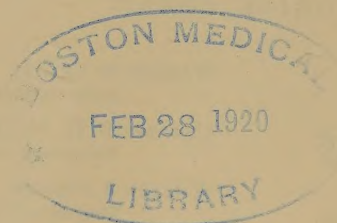
1330 Hill Street, Ann Arbor, Michigan

VOLUME 17

SEPTEMBER, 1919—JANUARY, 1920

PHILADELPHIA

THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY



CONTENTS

NO. 1. SEPTEMBER

FRANK BLAIR HANSON. The development of the sternum in <i>Sus scrofa</i> . Nineteen figures (six plates).....	1
BRUNO OETTEKING. The processus frontosphenoidalis of the zygoma and its bearing on the configuration of the orbit. Five figures (three plates).....	25
MATSUZIRO TAKENOUCHI. On the resistance of the red corpuscles of albino rats at different ages to hypotonic solutions of sodium chloride. One chart.....	45
LESLIE B. AIREY. On the presence of Haversian systems in membrane bone. Two figures	59
JOHN S. LATTA. The morphology of the so-called balancers in certain species of <i>Amblystoma</i> . Four figures.....	63

NO. 2. OCTOBER

EDWARD PHELPS ALLIS, JR. On the homologies of the squamosal bone of fishes.....	73
A. G. POHLMAN. Concerning the causal factor in the hatching of the chick, with particular reference to the musculus complexus. Two charts.....	89
RICHARD E. SCAMMON. A simple mounting for demonstration slides. One figure.....	105
PERCIVAL BAILEY. A case of thoracic stomach. Two figures.....	107

NO. 3. NOVEMBER

FRANKLIN P. REAGAN. On the later development of the azygos veins of swine. Sixteen figures.....	111
ANTHONY P. HUFFMIRE AND GEORGE C. BOWER. A case of persistence of the left superior vena cava in an aged adult. One figure.....	127
JOSEPH HAMILTON SMITH. Description of a case of persistent left duct of Cuvier in man. One figure.....	131
W. M. BALDWIN. The artificial production of monsters conforming to a definite type by means of x-rays. Twenty-one figures.....	135
Activities of The Wistar Institute, April, 1917, to April, 1919. A statement by the Advisory Board.....	165

NO. 4. DECEMBER

GEORGE S. HUNTINGTON. The morphology of the pulmonary artery in the Mammalia. Two text figures and five colored plates.....	165
ALBERT KUNTZ. The innervation of the gonads in the dog. Four figures.....	203
ALBERT KUNTZ. Experimental degeneration in the testis of the dog. Four figures....	221
ROBERT J. TERRY. The relation of the facial nerve and otic capsule. Four figures...	235
RAPHAEL ISAACS. The structure and mechanics of developing connective tissue. Six figures.....	243

NO. 5. JANUARY

H. D. SENIOR. The development of the human femoral artery, a correction. Four figures	271
JOHN A. KITTELSON. Effects of inanition and refeeding upon the growth of the kidney of the albino rat	281
A. R. COOPER. A case of the inferior vena cava uniting with the azygos vein in the dog. Two figures	299
Proceedings of the American Society of Zoologists. Seventeenth Annual Meeting	307
Proceedings of the American Society of Zoologists. Abstracts	323
Proceedings of the American Society of Zoologists. Historical, Constitution, etc.	357
Proceedings of the American Society of Zoologists. List of Officers and Members	365

Resumen por el autor, Frank Blair Hanson.
Universidad Washington, San Luis.

Desarrollo del esternón en *Sus scrofa*.

El presente trabajo contiene una descripción del desarrollo del esternón en el cerdo, desde su primera aparición en el embrión hasta un periodo avanzado de la vida del adulto. El autor discute las teorías sobre el origen del esternón e indica que la teoría de Ruge sobre el origen costal del esternón de los mamíferos no puede aceptarse en la actualidad. Considera también el origen y significación de las esterneras. En el cerdo no existe episternón o cartílagos supraesternales.

Translation by José F. Nonidez
Carnegie Institution of Washington